Operations Report

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CDF Weekly Meeting

Store summary

Run II records in blue!

Date	Inst Lum (initial)	Int Lum (live)	ε	Comments
Th 7/24	45.7e30	1767	92.3%	Record lumi to tape (all good)
Sa 7/26	43.4e30	1578	88.5%	Unrecoverable L00 trip, 2 SRC test fallout
Su 7/27	48.0e30	1417	91.0%	quench
Mo 7/28	38.9e30	1310	86.9%	Unrecoverable SVX trip, b0musc00
Tu 7/29	39.4e30	1256	80.7%	Diagnosing no SVT beamline in L3
We 7/30	36.5e30	617	95.0%	RF abort

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CDF down time

- **Tuesday:**
  - Problem flagged by hot/cold L3 silicon triggers
  - SVT data looked OK, suspected bad data out of Si VRBs
    - Red herring, spent hours chasing it
  - Turned out SVT was not writing beamline to L3
    - Missing process in SVT crate
  - Have kicked development of online monitoring of L3 silicon tracking and SVT processes/beamlines into high gear

- **Persistent:**
  - RC partitions spontaneously close
  - DAQ team has added diagnostics, tools for quicker recovery

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Accelerator Status

- ## Why the high luminosities all of a sudden?
  - More protons to low beta
  - …but no one magic cure
- ## Will it continue?
  - Proton quality from Booster has been hit or miss
  - As has pbar emittances
- ## Luck is a factor for integrated lumi
  - Last week quenches/aborts happened near the ends of stores
  - Not so lucky yesterday (6.5 hours in) or today (quench at start of ramp)

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CDF Activities/Plans

- **In-store studies?**
  - Right now, accelerator is trying to deliver as much lumi as possible and we should capitalize on this
  - Ops. Dept. has drawn up a policy outlining when in-store studies can be done and how they are prioritized --- study requestors take note!
    - See document linked from Detector SPL page
  - Currently on the docket:
    - BC errors to Stream D, dropping uncompressed data copies, SVT "Prereq" processing, high-rate EVB tests

- **L2 muon progress**
  - Confirmed L1-to-L2 path, some interfacing w/ Alpha
  - PULSAR crate included by default in non-physics runs

- **Stack and store 'til 225…..**